

[P4] P4 LENS SERIES

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- The 'P4 Lens Series' offers low profile lens especially designed for the Seoul Semiconductor LEDs
: **W42180**

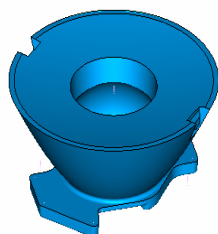
<http://www.seoulsemicon.co.kr>



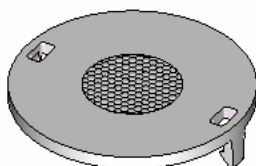
※ Korea Patent no. 10-0837573 & 10-0756174, issued June 4, 2008

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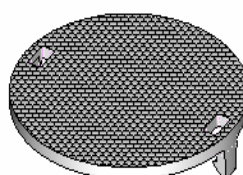
1. Lens Layout



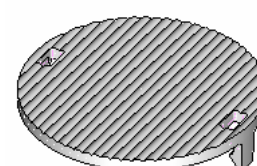
■ Collimate Lens



■ Narrow Filter



■ Medium Filter



■ Elliptical Filter

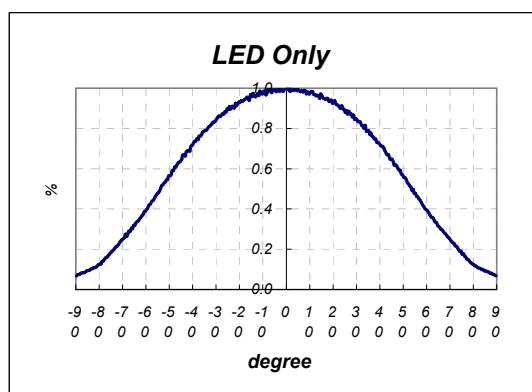
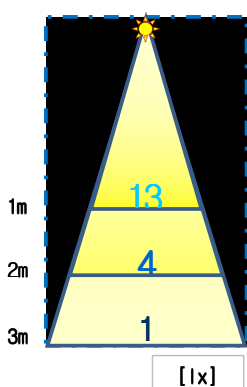
2. Lens Specification

Lens Type	Beam Angle	Beam Pattern	Components
Collimate Lens	15 deg.	Circle	Single Lens
Narrow Filter	12 deg.	Circle	Collimate lens + Filter
Medium Filter	30 deg.	Circle	
Elliptical Filter	X 40 deg / Y 20 Deg	Elliptical	

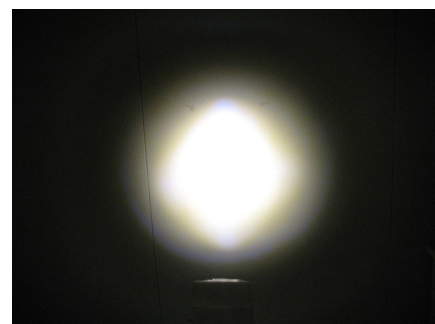
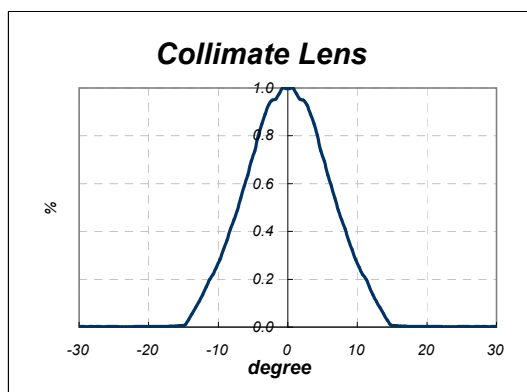
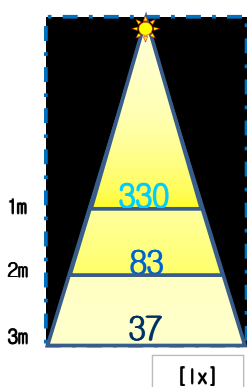
3. Measurements data (Illuminance, Distribution Graph, Photo)

Test Conditions :	LED : Seoul Semiconductor 'W42180' (Luminous Flux = 100 Lumen)
	Room Luminous Intensity : 0 Lumen
	Room Temperature : 20°C ± 1°C
	LED temperature after 10 min : ~ 36°C

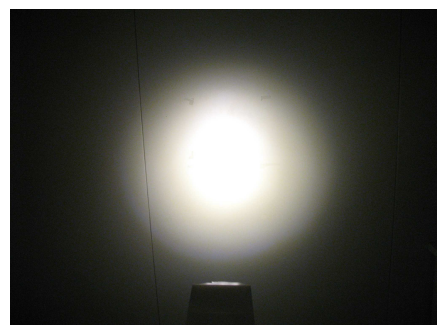
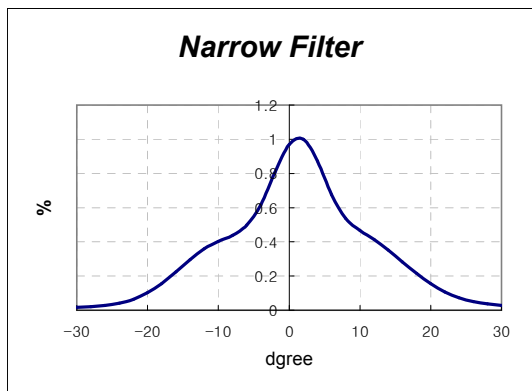
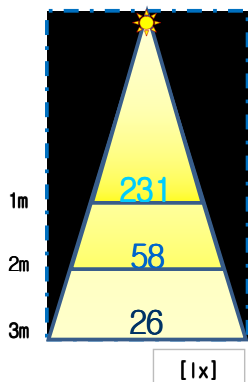
■ LED Only



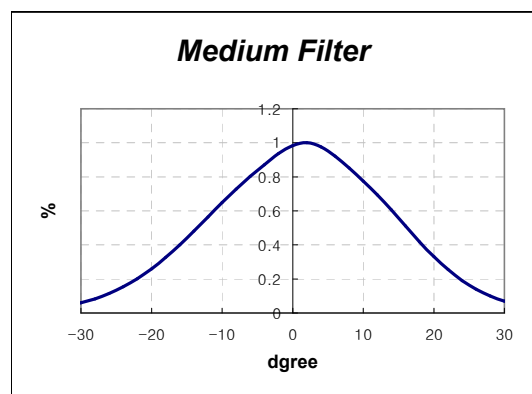
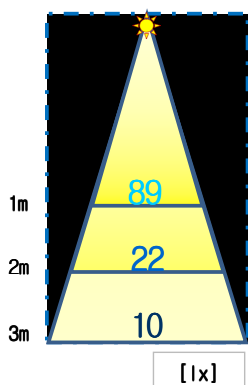
■ Collimate Lens



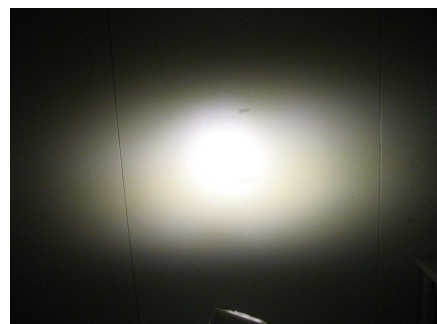
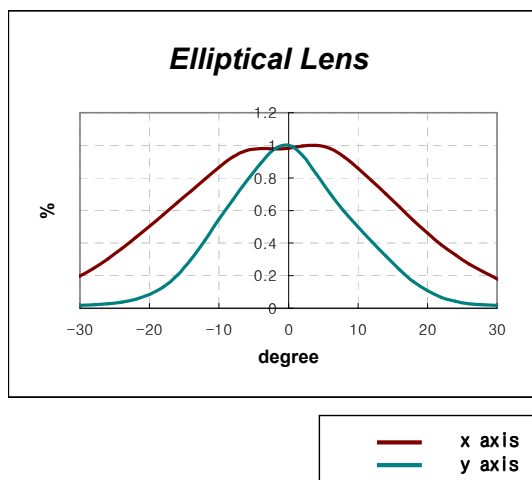
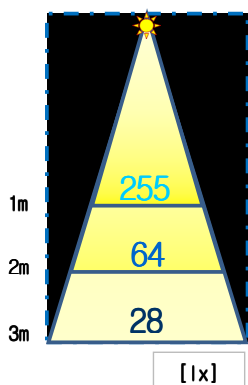
■ Narrow Filter



■ Medium Filter



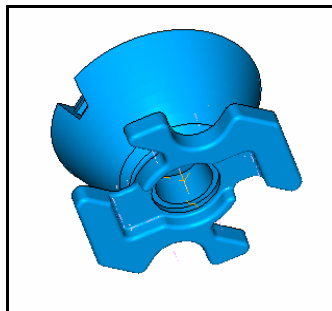
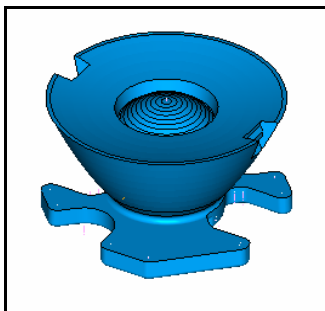
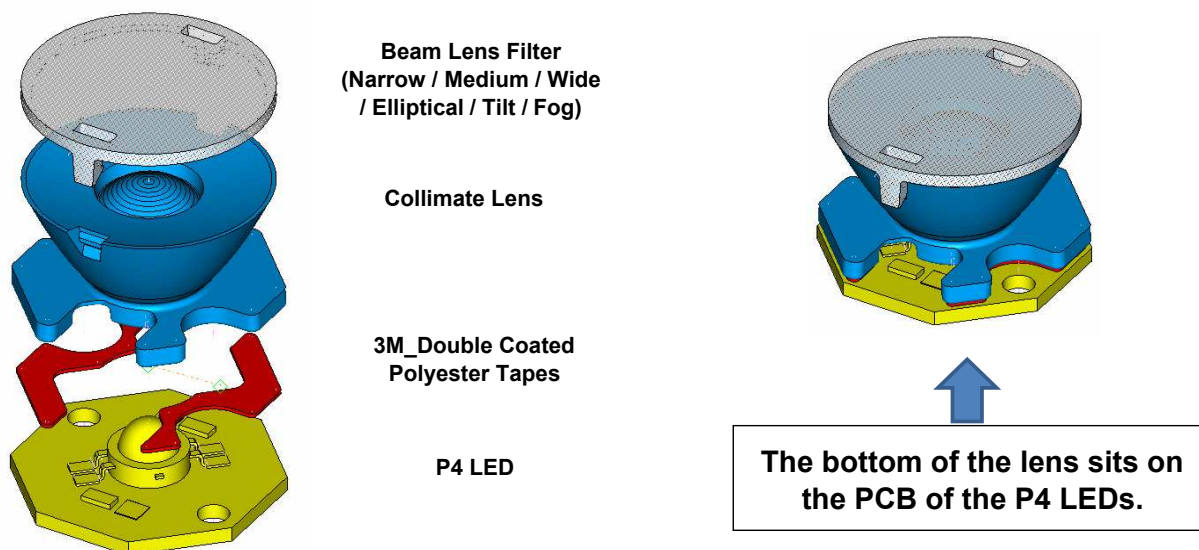
■ Elliptical Filter



4. Lens Characteristics

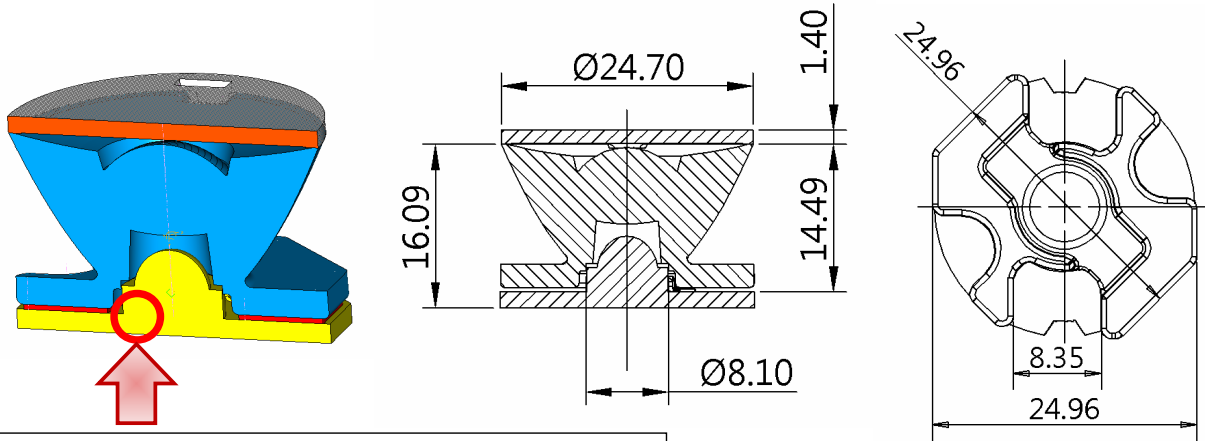
Parameter	Symbol	Value	Unit
Collimate Lens	PMMA (Optics)	-	-
Beam Lens Filter	PMMA (Optics)	-	-
Operating Temp.	T _{opr}	-40 ~ +80	℃
Storage Temp.	T _{stg}	-40 ~ +80	℃

5. View of the Assmbly with the Collimate Lens & Beam Lens Filter



View of Collimate Lens

6. Sectional view & Dimensions



The function of this part is to align the Lens with LED chip

7. Handling of the Collimate Lens

- Do not store in dusty place.
- Do not expose under corrosive environment.
- Do not touch the lens surface with bare-hand.
- Do not dip in or apply to aggressive chemicals, and also.
- DO not wipe with cloth or paper soaked with aggressive chemicals.

■ 'P4 Lens Series' is ideal optical solution for P4 LEDs illumination application.

